

To: Angel, Stacy[Angel.Stacy@epa.gov]; Hardy, Trevor D[trevor.hardy@pnnl.gov];
'angel.stacy@epa.gov['angel.stacy@epa.gov]
Cc: Jeremy Fisher[jfisher@synapse-energy.com]
From: DeYoung, Robyn
Sent: Thur 6/25/2015 5:23:58 PM
Subject: RE: Power Plant Emissions Metrology
AVERT User Manual 11-05-14_508.pdf
Ozone seasons by state.docx

Hi Trevor,

I can answer any questions you have regarding AVERT. This is great timing, because I've been meaning to catch up with you since our last correspondence! I wanted to touch base on a few items in your slides, answer your CEMS question and we have an update on other items.

Time zone:

We found that the time zone differences for different states within regions would alter emission impacts less than 1% in the most possible egregious cases. Given this small change we will won't be doing a full update at this time, but will schedule it for a future change as we find time.

Ozone Season:

The ozone season in AVERT is May through September. (we are fixing the typo where we say it's October) However we've learned that ozone seasons do vary across states. I've attached a table that shows you the variation in ozone seasons as listed in our regulations. If a state wants to customize their specific ozone season designation, they can do so using the monthly data information we provide as one of the outputs of the tool.

CEMS question:

We have information in our user manual for where we get our CEMs data. In Appendix B on page 45 of the User Guide we describe the CEMS data we use within the tool. This data is regularly collected every year as a requirement under 40 CFR Part 75 reporting requirements for electric generating units greater than 25MWs. You can go to this website for the raw data.
<http://ampd.epa.gov/ampd/>

Let me know if you have any questions, and it would be good to touch base before you go public with your smart grid tool so we can coordinate messaging and we'd like a

chance to take a look at your new model that uses AVERT as the underlying calculation in your tool.

Best,

Robyn (Kenney) DeYoung

202-343-9080

U.S. EPA

State and Local Climate and Energy Program

<http://epa.gov/statelocalclimate/>

From: Angel, Stacy
Sent: Thursday, June 25, 2015 9:12 AM
To: Hardy, Trevor D; 'angel.stacy@epa.gov'
Cc: DeYoung, Robyn
Subject: RE: Power Plant Emissions Metrology

Have you looked at the CEMS data documentation? I don't have that link. Let me know if a search for Continuous Emissions Monitoring System data doesn't work.

From: Hardy, Trevor D [<mailto:trevor.hardy@pnnl.gov>]
Sent: Wednesday, June 24, 2015 5:38 PM
To: 'angel.stacy@epa.gov'

Subject: Power Plant Emissions Metrology

Stacy,

As we've continued to work on our tool to estimate the emissions impacts of smart grid projects and our use of AVERT, we've been wondering how the emissions data is collected from the power plants themselves. Are there documents that you could point us towards that would give us a better idea how the pollutants are measured and how edge cases are handled (missing data, bad sensor, etc)? Any information you could provide would be helpful.

Thank you.

Trevor Hardy

Research Engineer

Pacific Northwest National Lab

509.372.4712